

Kirkland, Kim

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**From:** Kirkland, Kim  
**Sent:** Thursday, April 30, 2020 3:51 PM  
**To:** Miller, Lori P APHIS  
**Subject:** RE: Animal Carcass Disposal

d\plainHi Lori,

d\plain

d\plainPaul was able to provide info on carcass disposal as far as above ground burial. However, a follow up question came about regarding the word "limit". The specific question was:

d\plain

d\plainWith regards to carcass management, she was informed last night that landfills are rejecting the carcasses because they have met their **limit on what they can accept**. Since these are not diseased animals, I am assuming these are subtitle D landfills and that state/local restrictions are governing. Any further information you could provide on this topic before the 5 pm call with the Administrator would be useful.

d\plain

d\plainDo you have insight on what they mean by limits? Paul said he think **(b) (5)**

**(b) (5)**  
**(b) (5)**  
**(b) (5)** He suggested you would know more and Rob Miknis would be an alternative APHIS person. I reached out to Rob too but have not heard back yet.

d\plain

**(b) (6)**. This was a document she was working on which was due to our Sr. managers today.

d\plain

Kirkland, Kim

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**From:** Kirkland, Kim  
**Sent:** Thursday, April 30, 2020 2:46 PM  
**To:** Lemieux, Paul; Miller, Lori P APHIS  
**Subject:** FW: Questions on Carcass Management

d\plainHi Paul,

d\plain

d\plainAdditional questions are below. Do you know anything regarding limits?

d\plain

d\plainKim

d\plain

d\plain Original Message  
From: Elliott, Ross <Elliott.Ross@epa.gov>  
Sent: Thursday, April 30, 2020 3:37 PM  
To: Salyer, Kathleen <Salyer.Kathleen@epa.gov>; Crossland, Andy <Crossland.Andy@epa.gov>;  
Kirkland, Kim <Kirkland.Kim@epa.gov>  
Cc: ORCR IO <ORCR\_IO@epa.gov>  
Subject: RE: Questions on Carcass Management

d\plain

d\plainI am not familiar with "**limits**" on carcasses, but that would not surprise me. Practically speaking, there are rules on daily cover and/or odor that might be tied to limits on carcasses. Speculation. Kim, can we ask Lori over at APHIS what is her take on that topic (e.g., landfill owner/operator limits)?

d\plain

d\plain     Original Message

d\plainFrom: Salyer, Kathleen <Salyer.Kathleen@epa.gov>

d\plainSent: Thursday, April 30, 2020 3:12 PM

d\plainTo: Crossland, Andy <Crossland.Andy@epa.gov>; Elliott, Ross <Elliott.Ross@epa.gov>; Kirkland, Kim <Kirkland.Kim@epa.gov>

d\plainCc: ORCR IO <ORCR\_IO@epa.gov>

d\plainSubject: FW: Questions on Carcass Management

d\plainImportance: High

d\plain

d\plainAndy/Ross   any insight on this question?

d\plain

d\plain     Original Message

d\plainFrom: Cook, Steven <cook.steven@epa.gov>

d\plainSent: Thursday, April 30, 2020 1:42 PM

d\plainTo: Cheatham, Reggie <cheatham.reggie@epa.gov>; Wright, Peter <wright.peter@epa.gov>; Breen, Barry <Breen.Barry@epa.gov>; Salyer, Kathleen <Salyer.Kathleen@epa.gov>; Sullivan, Greg <Sullivan.Greg@epa.gov>

d\plainCc: Clark, Becki <Clark.Beki@epa.gov>; Perovich, Gina <Perovich.Gina@epa.gov>; Waltzer, Sam <Waltzer.Sam@epa.gov>

d\plainSubject: RE: Questions on Carcass Management

d\plain

d\plainAll

d\plain

d\plainJust talked with Carrie Meadow in the Ag office. With regards to carcass management, she was informed last night that landfills are rejecting the carcasses because they have met their limit on what they can accept. Since these are not diseased animals, I am assuming these are subtitle D landfills and that state/local restrictions are governing. Any further information you could provide on this topic before the 5 pm call with the Administrator would be useful.

d\plain

d\plainThanks

d\plain

d\plainSteven

d\plain

d\plain Original Message

d\plainFrom: Cheatham, Reggie <cheatham.reggie@epa.gov>

d\plainSent: Wednesday, April 29, 2020 6:09 PM

d\plainTo: Wright, Peter <wright.peter@epa.gov>; Cook, Steven <cook.steven@epa.gov>; Breen, Barry <Breen.Barry@epa.gov>

d\plainCc: Clark, Becki <Clark.Beki@epa.gov>; Perovich, Gina <Perovich.Gina@epa.gov>; Waltzer, Sam <Waltzer.Sam@epa.gov>

d\plainSubject: Questions on Carcass Management  
20-06522\_003195

d\plain

d\plainPeter

d\plain

d\plainThanks to Gina and her team for pulling together answers to your questions. Let us know if you need any additional information.

d\plain

d\plainThanks

d\plain

Lemieux, Paul

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**From:** Lemieux, Paul  
**Sent:** Thursday, April 30, 2020 2:55 PM  
**To:** Kirkland, Kim  
**Cc:** Miller, Lori P APHIS  
**Subject:** Re: Questions on Carcass Management

d\plain\f0I don't know anything about limits for either composting or above ground burial. I think the

(b) (5)

Lori would know more. Rob Miknis would be an alternative APHIS person. He's in Denver so he's a couple hours earlier and might be more reachable.

d\plain\f0

d\plain\f0I'll see if I can find his cell and send it to you. I think his email and office number were in the thing Anna was writing up.

d\plain\f0Paul M. Lemieux, PhD  
Senior Research Engineer  
US EPA Office of Research and Development  
Center for Environmental Solutions and Emergency Response

d\plain\f0Systems Tools & Materials Management Branch  
NHSRC/DCMD

[919-541-0962](tel:919-541-0962)

[919-541-0496](tel:919-541-0496) fax

[513-300-9958](tel:513-300-9958) cell

[lemieux.paul@epa.gov](mailto:lemieux.paul@epa.gov)

<https://www.epa.gov/homeland-security-research>

d\plain\f0

d\plain\f0

d\li600\ri600\sb280\plain\f0On Apr 30, 2020, at 4:46 PM, Kirkland, Kim  
<Kirkland.Kim@epa.gov> wrote:

d\sb280\plain\f0\u65279?

20-06522\_003197

d\plainHi Paul,

d\plain

d\plainAdditional questions are below. Do you know anything regarding limits?

d\plain

d\plainKim

d\plain

d\plain----- Original Message-----

From: Elliott, Ross <Elliott.Ross@epa.gov>

Sent: Thursday, April 30, 2020 3:37 PM

To: Salyer, Kathleen <Salyer.Kathleen@epa.gov>; Crossland, Andy <Crossland.Andy@epa.gov>;

Kirkland, Kim <Kirkland.Kim@epa.gov>

Cc: ORCR IO <ORCR\_IO@epa.gov>

Subject: RE: Questions on Carcass Management

d\plain

d\plainI am not familiar with "**limits**" on carcasses, but that would not surprise me. Practically speaking, there are rules on daily cover and/or odor that might be tied to limits on carcasses. Speculation. Kim, can we ask Lori over at APHIS what is her take on that topic (e.g., landfill owner/operator limits)?

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d\plain----- Original Message-----

d\plainFrom: Salyer, Kathleen <Salyer.Kathleen@epa.gov >

d\plainSent: Thursday, April 30, 2020 3:12 PM

d\plainTo: Crossland, Andy <Crossland.Andy@epa.gov >; Elliott, Ross <Elliott.Ross@epa.gov >;

Kirkland, Kim <Kirkland.Kim@epa.gov >

d\plainCc: ORCR IO <ORCR\_IO@epa.gov>

d\plainSubject: FW: Questions on Carcass Management

d\plainImportance: High

d\plain

d\plainAndy/Ross - any insight on this question?

d\plain

d\plain----- Original Message-----

d\plainFrom: Cook, Steven <cook.steven@epa.gov>

d\plainSent: Thursday, April 30, 2020 1:42 PM

d\plainTo: Cheatham, Reggie <cheatham.reggie@epa.gov>; Wright, Peter <wright.peter@epa.gov>; Breen, Barry <Breen.Barry@epa.gov>; Salyer, Kathleen <Salyer.Kathleen@epa.gov>; Sullivan, Greg <Sullivan.Greg@epa.gov>

d\plainCc: Clark, Becki <Clark.Beki@epa.gov>; Perovich, Gina <Perovich.Gina@epa.gov>; Waltzer, Sam <Waltzer.Sam@epa.gov>

d\plainSubject: RE: Questions on Carcass Management

d\plain

d\plainAll -

d\plain

d\plainJust talked with Carrie Meadow in the Ag office. With regards to carcass management, she was informed last night that landfills are rejecting the carcasses because they have met their limit on what they can accept. Since these are not diseased animals, I am assuming these are subtitle D landfills and that state/local restrictions are governing. Any further information you could provide on this topic before the 5 pm call with the Administrator would be useful.

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d\plainThanks

d\plain

d\plainSteven

d\plain

d\plain----- Original Message-----

d\plainFrom: Cheatham, Reggie <cheatham.reggie@epa.gov>

d\plainSent: Wednesday, April 29, 2020 6:09 PM

d\plainTo: Wright, Peter <wright.peter@epa.gov>; Cook, Steven <cook.steven@epa.gov>; Breen, Barry <Breen.Barry@epa.gov>

d\plainCc: Clark, Becki <Clark.Beki@epa.gov>; Perovich, Gina <Perovich.Gina@epa.gov>; Waltzer, Sam <Waltzer.Sam@epa.gov>

d\plainSubject: Questions on Carcass Management

d\plain

d\plainPeter



d\plain

d\plainThanks to Gina and her team for pulling together answers to your questions. Let us know if you need any additional information.

d\plain

d\plainThanks

d\plain

Kirkland, Kim

---

**From:** Kirkland, Kim  
**Sent:** Thursday, April 30, 2020 2:56 PM  
**To:** Lemieux, Paul  
**Cc:** Miller, Lori P APHIS  
**Subject:** RE: Questions on Carcass Management

d\plainThanks. If not we will pull something together. We appreciate the help and quick turnaround.

d\plain

---

**d\plainFrom:** Lemieux, Paul <Lemieux.Paul@epa.gov>  
**Sent:** Thursday, April 30, 2020 4:55 PM  
**To:** Kirkland, Kim <Kirkland.Kim@epa.gov>  
**Cc:** lori.p.miller@usda.gov  
**Subject:** Re: Questions on Carcass Management

d\plain

d\plainI don't know anything about limits for either composting or above ground burial. I think the

(b) (5)

Lori would know more. Rob Miknis would be an alternative APHIS person. He's in Denver so he's a couple hours earlier and might be more reachable.

d\plain

d\plainI'll see if I can find his cell and send it to you. I think his email and office number were in the thing Anna was writing up.

d\sb240\plainPaul M. Lemieux, PhD  
Senior Research Engineer  
US EPA Office of Research and Development  
Center for Environmental Solutions and Emergency Response

d\plainSystems Tools & Materials Management Branch  
20-06522\_003201

NHSRC/DCMD  
[919 541 0962](tel:9195410962)  
[919 541 0496](tel:9195410496) fax  
[513 300 9958](tel:5133009958) cell  
[lemieux.paul@epa.gov](mailto:lemieux.paul@epa.gov)  
[https://www.epa.gov/homeland security research](https://www.epa.gov/homeland_security_research)

d\plain

d\plain

d\plainOn Apr 30, 2020, at 4:46 PM, Kirkland, Kim <[Kirkland.Kim@epa.gov](mailto:Kirkland.Kim@epa.gov)> wrote:

d\sb240\plain\u65279?

d\plainHi Paul,

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d\plainAdditional questions are below. Do you know anything regarding limits?

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d\plainKim

d\plain

d\plain Original Message  
From: Elliott, Ross <[Elliott.Ross@epa.gov](mailto:Elliott.Ross@epa.gov)>  
Sent: Thursday, April 30, 2020 3:37 PM  
To: Salyer, Kathleen <[Salyer.Kathleen@epa.gov](mailto:Salyer.Kathleen@epa.gov)>; Crossland, Andy  
<[Crossland.Andy@epa.gov](mailto:Crossland.Andy@epa.gov)>; Kirkland, Kim <[Kirkland.Kim@epa.gov](mailto:Kirkland.Kim@epa.gov)>  
Cc: ORCR IO <[ORCR\\_IO@epa.gov](mailto:ORCR_IO@epa.gov)>  
Subject: RE: Questions on Carcass Management

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d\plainI am not familiar with "limits" on carcasses, but that would not surprise me. Practically speaking, there are rules on daily cover and/or odor that might be tied to limits on carcasses. Speculation. Kim, can we ask Lori over at APHIS what is her take on that topic (e.g., landfill owner/operator limits)?

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d\plain Original Message

d\plainFrom: Salyer, Kathleen <Salyer.Kathleen@epa.gov>

d\plainSent: Thursday, April 30, 2020 3:12 PM

d\plainTo: Crossland, Andy <Crossland.Andy@epa.gov>; Elliott, Ross <Elliott.Ross@epa.gov>; Kirkland, Kim <Kirkland.Kim@epa.gov>

d\plainCc: ORCR IO <ORCR\_IO@epa.gov>

d\plainSubject: FW: Questions on Carcass Management

d\plainImportance: High

d\plain

d\plainAndy/Ross any insight on this question?

d\plain

d\plain Original Message

d\plainFrom: Cook, Steven <cook.steven@epa.gov>

d\plainSent: Thursday, April 30, 2020 1:42 PM

d\plainTo: Cheatham, Reggie <cheatham.reggie@epa.gov>; Wright, Peter  
20-06522\_003203

<wright.peter@epa.gov>; Breen, Barry <Breen.Barry@epa.gov>; Salyer, Kathleen  
<Salyer.Kathleen@epa.gov>; Sullivan, Greg <Sullivan.Greg@epa.gov>

d\plainCc: Clark, Becki <Clark.Beki@epa.gov>; Perovich, Gina <Perovich.Gina@epa.gov>;  
Waltzer, Sam <Waltzer.Sam@epa.gov>

d\plainSubject: RE: Questions on Carcass Management

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d\plainAll

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d\plainJust talked with Carrie Meadow in the Ag office. With regards to carcass  
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animals, I am assuming these are subtitle D landfills and that state/local restrictions are  
governing. Any further information you could provide on this topic before the 5 pm call  
with the Administrator would be useful.

d\plain

d\plainThanks

d\plain

d\plainSteven

d\plain

d\plain Original Message

d\plainFrom: Cheatham, Reggie <cheatham.reggie@epa.gov>

d\plainSent: Wednesday, April 29, 2020 6:09 PM

20-06522\_003204

d\plainTo: Wright, Peter <wright.peter@epa.gov>; Cook, Steven <cook.steven@epa.gov>;  
Breen, Barry <Breen.Barry@epa.gov>

d\plainCc: Clark, Becki <Clark.Beki@epa.gov>; Perovich, Gina <Perovich.Gina@epa.gov>;  
Waltzer, Sam <Waltzer.Sam@epa.gov>

d\plainSubject: Questions on Carcass Management

d\plain

d\plainPeter

d\plain

d\plainThanks to Gina and her team for pulling together answers to your questions. Let us  
know if you need any additional information.

d\plain

d\plainThanks

d\plain

d\plainStrategy and Policy

d\plain

d\plain4700 River Road, Unit 41, Room 5D 03.2

d\plainRiverdale, MD 20737

d\plain

d\plainPhone: 301 851 3512

d\plainFAX: 301 734 7817

d\plainE mail: [lori.p.miller@usda.gov](mailto:lori.p.miller@usda.gov)

d\plain

d\plain

d\plain<image002.jpg><[https://public.govdelivery.com/accounts/USDAAPHIS/subscriber/topics?qsp=USDAAPHIS\\_1](https://public.govdelivery.com/accounts/USDAAPHIS/subscriber/topics?qsp=USDAAPHIS_1)>Click here to subscribe to the VS Animal Health Stakeholder Registry<[https://public.govdelivery.com/accounts/USDAAPHIS/subscriber/topics?qsp=USDAAPHIS\\_1](https://public.govdelivery.com/accounts/USDAAPHIS/subscriber/topics?qsp=USDAAPHIS_1)>

d\plain

---

**d\plainFrom:** Kirkland, Kim [<mailto:Kirkland.Kim@epa.gov>]

**Sent:** Thursday, April 30, 2020 3:51 PM

**To:** Lemieux, Paul <[Lemieux.Paul@epa.gov](mailto:Lemieux.Paul@epa.gov)>; Miller, Lori P APHIS <[lori.p.miller@usda.gov](mailto:lori.p.miller@usda.gov)>

**Subject:** FW: Animal Carcass Disposal

**Importance:** High

d\plain

d\plainHello,

d\plain

d\plainWe have a quick turnaround regarding an inquiry and need to know a definition of “above ground burial for carcass” (b) (6)

We need the info by before 5 pm today. Thanks.

d\plain

d\plainKim

d\plain

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**d\plainFrom:** Elliott, Ross <[Elliott.Ross@epa.gov](mailto:Elliott.Ross@epa.gov)>

**Sent:** Thursday, April 30, 2020 3:46 PM

**To:** Kirkland, Kim <[Kirkland.Kim@epa.gov](mailto:Kirkland.Kim@epa.gov)>

**Subject:** RE: Animal Carcass Disposal

d\plain

d\plainI just found a link and asked the specials to figure it out.

d\plain

d\plainCan you reach out to Lori as well? We need to try to see if she knows about carcass limits question, before 5. Thanks.

d\plain

---

**d\plainFrom:** Kirkland, Kim <[Kirkland.Kim@epa.gov](mailto:Kirkland.Kim@epa.gov)>

**Sent:** Thursday, April 30, 2020 3:45 PM

**To:** Elliott, Ross <[Elliott.Ross@epa.gov](mailto:Elliott.Ross@epa.gov)>; Rubright, Tyler <[Rubright.Tyler@epa.gov](mailto:Rubright.Tyler@epa.gov)>; Tschursin, Anna <[Tschursin.Anna@epa.gov](mailto:Tschursin.Anna@epa.gov)>; Crossland, Andy <[Crossland.Andy@epa.gov](mailto:Crossland.Andy@epa.gov)>

**Cc:** Radtke, Meghan <[Radtke.Meghan@epa.gov](mailto:Radtke.Meghan@epa.gov)>

**Subject:** RE: Animal Carcass Disposal

d\plain



d\plainI can reach out to Paul L. regarding the description. He might be available.

d\plain

---

**d\plainFrom:** Elliott, Ross <[Elliott.Ross@epa.gov](mailto:Elliott.Ross@epa.gov)>

**Sent:** Thursday, April 30, 2020 3:42 PM

**To:** Rubright, Tyler <[Rubright.Tyler@epa.gov](mailto:Rubright.Tyler@epa.gov)>; Tschursin, Anna <[Tschursin.Anna@epa.gov](mailto:Tschursin.Anna@epa.gov)>; Crossland, Andy <[Crossland.Andy@epa.gov](mailto:Crossland.Andy@epa.gov)>

**Cc:** Radtke, Meghan <[Radtke.Meghan@epa.gov](mailto:Radtke.Meghan@epa.gov)>; Kirkland, Kim <[Kirkland.Kim@epa.gov](mailto:Kirkland.Kim@epa.gov)>

**Subject:** RE: Animal Carcass Disposal

d\plain

d\plainApologize for not letting you all know sooner (b) (6)

[REDACTED]

d\plain

d\plainHow critical is this description? It sounded somewhat self evident. We are planning to reach out to APHIS for yet another carcass fire drill, we can try to find out.

d\plain

---

**d\plainFrom:** Rubright, Tyler <[Rubright.Tyler@epa.gov](mailto:Rubright.Tyler@epa.gov)>

**Sent:** Thursday, April 30, 2020 3:36 PM

**To:** Tschursin, Anna <[Tschursin.Anna@epa.gov](mailto:Tschursin.Anna@epa.gov)>; Elliott, Ross <[Elliott.Ross@epa.gov](mailto:Elliott.Ross@epa.gov)>; Crossland, Andy <[Crossland.Andy@epa.gov](mailto:Crossland.Andy@epa.gov)>

**Cc:** Radtke, Meghan <[Radtke.Meghan@epa.gov](mailto:Radtke.Meghan@epa.gov)>

**Subject:** FW: Animal Carcass Disposal

d\plain

d\plainHi Anna,

d\plain

d\plainThere were a few minor edits that we caught, but the only thing that needs specification would

be a description of “above ground burial” for carcasses. Can you please briefly describe what this method entails? Once that’s addressed, we can get it up to OLEM IO.

d\plain

d\plainThanks,  
Tyler

d\plain

d\plainTyler Rubright

d\plainSpecial Assistant

d\plainUS EPA, Office of Resource Conservation and Recovery

*d\plainOffice: 703 308 8666*

*d\plainCell: 703 719 1176*

d\plain

d\plain

d\plain

---

**d\plainFrom:** Salyer, Kathleen <[Salyer.Kathleen@epa.gov](mailto:Salyer.Kathleen@epa.gov)>

**Sent:** Thursday, April 30, 2020 3:32 PM

**To:** Rubright, Tyler <[Rubright.Tyler@epa.gov](mailto:Rubright.Tyler@epa.gov)>

**Cc:** ORCR IO <[ORCR\\_IO@epa.gov](mailto:ORCR_IO@epa.gov)>

**Subject:** RE: Animal Carcass Disposal

d\plain

d\plainMy comments

d\plain

---

**d\plainFrom:** Rubright, Tyler <[Rubright.Tyler@epa.gov](mailto:Rubright.Tyler@epa.gov)>

**Sent:** Thursday, April 30, 2020 3:21 PM

**To:** Salyer, Kathleen <[Salyer.Kathleen@epa.gov](mailto:Salyer.Kathleen@epa.gov)>

**Cc:** ORCR IO <[ORCR\\_IO@epa.gov](mailto:ORCR_IO@epa.gov)>

**Subject:** RE: Animal Carcass Disposal

d\plain

d\plainHi Kathleen,

d\plain

d\plainAttached is the version of the animal carcass one pager with my edits. MRWMD management has already incorporated their edits.

d\plain

d\plainThanks,

d\plainTyler

d\plain

d\plainTyler Rubright

d\plainSpecial Assistant

d\plainUS EPA, Office of Resource Conservation and Recovery

*d\plainOffice: 703 308 8666*

*d\plainCell: 703 719 1176*

d\plain

d\plain

d\plain

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**d\plainFrom:** Radtke, Meghan <[Radtke.Meghan@epa.gov](mailto:Radtke.Meghan@epa.gov)> **On Behalf Of** Salyer, Kathleen  
**Sent:** Wednesday, April 29, 2020 7:42 AM  
**To:** Elliott, Ross <[Elliott.Ross@epa.gov](mailto:Elliott.Ross@epa.gov)>; Crossland, Andy <[Crossland.Andy@epa.gov](mailto:Crossland.Andy@epa.gov)>  
**Cc:** Salyer, Kathleen <[Salyer.Kathleen@epa.gov](mailto:Salyer.Kathleen@epa.gov)>; Radtke, Meghan <[Radtke.Meghan@epa.gov](mailto:Radtke.Meghan@epa.gov)>;  
Rubright, Tyler <[Rubright.Tyler@epa.gov](mailto:Rubright.Tyler@epa.gov)>; Sullivan, Greg <[Sullivan.Greg@epa.gov](mailto:Sullivan.Greg@epa.gov)>  
**Subject:** FW: Animal Carcass Disposal

d\plain

d\plainHi Ross and Andy,

d\plain

d\plainPassing this request from Peter along to you. Do you think you can come up with something today?

d\plain

d\plainThanks!

d\plain

d\plainMeghan

d\plain

d\plainMeghan Radtke, Ph.D., Biologist

d\plainSpecial Assistant

d\plainOffice of Resource Conservation and Recovery

d\plainOffice of Land and Emergency Management

d\plainU.S. Environmental Protection Agency

d\plainDesk phone: 703 347 0229

d\plainMobile: 703 472 8215

d\plain

---

**d\plainFrom:** Wright, Peter <[wright.peter@epa.gov](mailto:wright.peter@epa.gov)>

**Sent:** Tuesday, April 28, 2020 5:55 PM

**To:** Cheatham, Reggie <[cheatham.reggie@epa.gov](mailto:cheatham.reggie@epa.gov)>; Salyer, Kathleen <[Salyer.Kathleen@epa.gov](mailto:Salyer.Kathleen@epa.gov)>; Sullivan, Greg <[Sullivan.Greg@epa.gov](mailto:Sullivan.Greg@epa.gov)>; Clark, Becki <[Clark.Beki@epa.gov](mailto:Clark.Beki@epa.gov)>

**Cc:** Breen, Barry <[Breen.Barry@epa.gov](mailto:Breen.Barry@epa.gov)>; Cook, Steven <[cook.steven@epa.gov](mailto:cook.steven@epa.gov)>; Hall, Tayoka <[Hall.Tayoka@epa.gov](mailto:Hall.Tayoka@epa.gov)>; Hilosky, Nick <[Hilosky.Nick@epa.gov](mailto:Hilosky.Nick@epa.gov)>

**Subject:** Animal Carcass Disposal

d\plain

d\plainAll

d\plain

d\plainI received a call from Carrie Meadows the Agency's Ag Advisor about the developing issue of animal carcass disposal caused by the closure of pork plants. This topic is getting increased attention at the highest levels in the Government and she expects that the Administrator may schedule a call to discuss this week. I would appreciate a quick update on what work we have done to date answering questions, preparing to assist, etc. I would also be interested in a brief understanding of our prior experience and role in other situations that caused the deaths of large number of livestock that posed significant disposal challenges.

d\plain

d\plainThank you,

d\plain

d\plainPeter

d\plain

This electronic message contains information generated by the USDA solely for the intended recipients. Any unauthorized interception of this message or the use or disclosure of the information it contains may violate the law and subject the violator to civil or criminal penalties. If you believe you have received this message in error, please notify the sender and delete the email immediately.

**Miller, Lori P - APHIS**

---

**From:** Miller, Lori P APHIS  
**Sent:** Thursday, April 30, 2020 4:20 PM  
**To:** Kirkland, Kim  
**Cc:** Miknis, Robert A APHIS  
**Subject:** RE: Animal Carcass Disposal

Hi, Kim. Please see my response embedded below. Lori

Lori P. Miller, PE  
Senior Staff Officer/Environmental Engineer

United States Department of Agriculture  
Animal and Plant Health Inspection Service  
Veterinary Services  
Strategy and Policy

4700 River Road, Unit 41, Room 5D-03.2  
Riverdale, MD 20737

Phone: 301 851 3512  
FAX: 301 734 7817  
E-mail: [lori.p.miller@usda.gov](mailto:lori.p.miller@usda.gov)

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**From:** Kirkland, Kim [<mailto:Kirkland.Kim@epa.gov>]  
**Sent:** Thursday, April 30, 2020 5:51 PM  
**To:** Miller, Lori P - APHIS <[lori.p.miller@usda.gov](mailto:lori.p.miller@usda.gov)>  
**Subject:** RE: Animal Carcass Disposal

Hi Lori,

Paul was able to provide info on carcass disposal as far as above ground burial. However, a follow-up question came about regarding the word "limit". The specific question was:

With regards to carcass management, she was informed last night that landfills are rejecting the carcasses because they have met their **limit on what they can accept**. Since these are not diseased animals, I am assuming these are subtitle D landfills and that state/local restrictions are governing. Any further information you could provide on this topic before the 5 pm call with the Administrator would be useful. LANDFILLS ARE DESIGNED WITH A NUMBER OF FACTORS IN MIND, SUCH AS CAPACITY, SLOPE STABILITY AND LEACHATE CHARACTERISTICS. THE LIMIT COULD BE RELATED TO VOLUME, THAT THEY ARE ONLY PERMITTED TO ACCEPT A CERTAIN VOLUME OF TOTAL WASTE PER DAY. IT COULD BE RELATED TO SLOPE STABILITY BECAUSE CARCASSES START OFF SOLID, THEN RELEASE GAS AND CONCENTRATED LIQUIDS. IF TOO MANY CARCASSES ARE PLACED AT ONE TIME, IT'S POSSIBLE THEY ARE CONCERNED ABOUT SLOPE STABILITY OR LEACHATE

CONCENTRATION AND QUALITY. WE HAVE BEEN TESTING GRINDERS FOR USE ON PIGS WITH GREAT SUCCESS. THE GRINDERS GREATLY REDUCE THE VOLUME AND BECAUSE THE MATERIAL IS MIXED WITH WOOD CHIPS DURING THE GRINDING PROCESS, THERE IS LESS LIQUID AND MORE STABILITY. I WONDER IF THAT WOULD FREE UP MORE LANDFILL CAPACITY.

Do you have insight on what they mean by limits? Paul said he think (b) (5)

(b) (5). THIS MAKES SENSE IN THE CONTEXT OF ABOVE GROUND BURIAL, BUT NOT FOR JUST LANDFILL. You also need to have enough space to operate the heavy equipment it takes to set everything up. He suggested you would know more and Rob Miknis would be an alternative APHIS person. I reached out to Rob too but have not heard back yet.

(b) (6) This was a document she was working on which was due to our Sr. managers today.

Kim

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**From:** Miller, Lori P - APHIS <[lori.p.miller@usda.gov](mailto:lori.p.miller@usda.gov)>

**Sent:** Thursday, April 30, 2020 5:41 PM

**To:** Kirkland, Kim <[Kirkland.Kim@epa.gov](mailto:Kirkland.Kim@epa.gov)>; Lemieux, Paul <[Lemieux.Paul@epa.gov](mailto:Lemieux.Paul@epa.gov)>

**Subject:** RE: Animal Carcass Disposal

I just got off a string of calls, sorry about late response.

(b) (6)

I hope you were able to get what you need.

Lori P. Miller, PE  
Senior Staff Officer/Environmental Engineer

United States Department of Agriculture  
Animal and Plant Health Inspection Service  
Veterinary Services  
Strategy and Policy

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**From:** Kirkland, Kim [<mailto:Kirkland.Kim@epa.gov>]

**Sent:** Thursday, April 30, 2020 3:51 PM

**To:** Lemieux, Paul <[Lemieux.Paul@epa.gov](mailto:Lemieux.Paul@epa.gov)>; Miller, Lori P - APHIS <[lori.p.miller@usda.gov](mailto:lori.p.miller@usda.gov)>

**Subject:** FW: Animal Carcass Disposal

**Importance:** High



Hello,

We have a quick turnaround regarding an inquiry and need to know a definition of "above-ground burial for carcass" (b) (6). We need the info by before 5 pm today. Thanks.

Kim

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**From:** Elliott, Ross <[Elliott.Ross@epa.gov](mailto:Elliott.Ross@epa.gov)>  
**Sent:** Thursday, April 30, 2020 3:46 PM  
**To:** Kirkland, Kim <[Kirkland.Kim@epa.gov](mailto:Kirkland.Kim@epa.gov)>  
**Subject:** RE: Animal Carcass Disposal

I just found a link and asked the specials to figure it out.

Can you reach out to Lori as well? We need to try to see if she knows about carcass limits question, before 5. Thanks.

---

**From:** Kirkland, Kim <[Kirkland.Kim@epa.gov](mailto:Kirkland.Kim@epa.gov)>  
**Sent:** Thursday, April 30, 2020 3:45 PM  
**To:** Elliott, Ross <[Elliott.Ross@epa.gov](mailto:Elliott.Ross@epa.gov)>; Rubright, Tyler <[Rubright.Tyler@epa.gov](mailto:Rubright.Tyler@epa.gov)>; Tschursin, Anna <[Tschursin.Anna@epa.gov](mailto:Tschursin.Anna@epa.gov)>; Crossland, Andy <[Crossland.Andy@epa.gov](mailto:Crossland.Andy@epa.gov)>  
**Cc:** Radtke, Meghan <[Radtke.Meghan@epa.gov](mailto:Radtke.Meghan@epa.gov)>  
**Subject:** RE: Animal Carcass Disposal

I can reach out to Paul L. regarding the description. He might be available.

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**From:** Elliott, Ross <[Elliott.Ross@epa.gov](mailto:Elliott.Ross@epa.gov)>  
**Sent:** Thursday, April 30, 2020 3:42 PM  
**To:** Rubright, Tyler <[Rubright.Tyler@epa.gov](mailto:Rubright.Tyler@epa.gov)>; Tschursin, Anna <[Tschursin.Anna@epa.gov](mailto:Tschursin.Anna@epa.gov)>; Crossland, Andy <[Crossland.Andy@epa.gov](mailto:Crossland.Andy@epa.gov)>  
**Cc:** Radtke, Meghan <[Radtke.Meghan@epa.gov](mailto:Radtke.Meghan@epa.gov)>; Kirkland, Kim <[Kirkland.Kim@epa.gov](mailto:Kirkland.Kim@epa.gov)>  
**Subject:** RE: Animal Carcass Disposal

Apologize for not letting you all know sooner (b) (6)

How critical is this description? It sounded somewhat self-evident. We are planning to reach out to APHIS for yet another carcass fire drill, we can try to find out.

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**From:** Rubright, Tyler <[Rubright.Tyler@epa.gov](mailto:Rubright.Tyler@epa.gov)>  
**Sent:** Thursday, April 30, 2020 3:36 PM  
**To:** Tschursin, Anna <[Tschursin.Anna@epa.gov](mailto:Tschursin.Anna@epa.gov)>; Elliott, Ross <[Elliott.Ross@epa.gov](mailto:Elliott.Ross@epa.gov)>; Crossland, Andy <[Crossland.Andy@epa.gov](mailto:Crossland.Andy@epa.gov)>  
**Cc:** Radtke, Meghan <[Radtke.Meghan@epa.gov](mailto:Radtke.Meghan@epa.gov)>  
**Subject:** FW: Animal Carcass Disposal

Hi Anna,

There were a few minor edits that we caught, but the only thing that needs specification would be a description of "above-ground burial" for carcasses. Can you please briefly describe what this method entails? Once that's addressed, we can get it up to OLEM IO.

20-06522\_003263

Thanks,  
Tyler

Tyler Rubright  
Special Assistant  
US EPA, Office of Resource Conservation and Recovery  
*Office: 703-308-8666*  
*Cell: 703-719-1176*

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**From:** Salyer, Kathleen <[Salyer.Kathleen@epa.gov](mailto:Salyer.Kathleen@epa.gov)>  
**Sent:** Thursday, April 30, 2020 3:32 PM  
**To:** Rubright, Tyler <[Rubright.Tyler@epa.gov](mailto:Rubright.Tyler@epa.gov)>  
**Cc:** ORCR IO <[ORCR\\_IO@epa.gov](mailto:ORCR_IO@epa.gov)>  
**Subject:** RE: Animal Carcass Disposal

My comments

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**From:** Rubright, Tyler <[Rubright.Tyler@epa.gov](mailto:Rubright.Tyler@epa.gov)>  
**Sent:** Thursday, April 30, 2020 3:21 PM  
**To:** Salyer, Kathleen <[Salyer.Kathleen@epa.gov](mailto:Salyer.Kathleen@epa.gov)>  
**Cc:** ORCR IO <[ORCR\\_IO@epa.gov](mailto:ORCR_IO@epa.gov)>  
**Subject:** RE: Animal Carcass Disposal

Hi Kathleen,

Attached is the version of the animal carcass one-pager with my edits. MRWMD management has already incorporated their edits.

Thanks,  
Tyler

Tyler Rubright  
Special Assistant  
US EPA, Office of Resource Conservation and Recovery  
*Office: 703-308-8666*  
*Cell: 703-719-1176*

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**From:** Radtke, Meghan <[Radtke.Meghan@epa.gov](mailto:Radtke.Meghan@epa.gov)> **On Behalf Of** Salyer, Kathleen  
**Sent:** Wednesday, April 29, 2020 7:42 AM  
**To:** Elliott, Ross <[Elliott.Ross@epa.gov](mailto:Elliott.Ross@epa.gov)>; Crossland, Andy <[Crossland.Andy@epa.gov](mailto:Crossland.Andy@epa.gov)>  
**Cc:** Salyer, Kathleen <[Salyer.Kathleen@epa.gov](mailto:Salyer.Kathleen@epa.gov)>; Radtke, Meghan <[Radtke.Meghan@epa.gov](mailto:Radtke.Meghan@epa.gov)>; Rubright, Tyler <[Rubright.Tyler@epa.gov](mailto:Rubright.Tyler@epa.gov)>; Sullivan, Greg <[Sullivan.Greg@epa.gov](mailto:Sullivan.Greg@epa.gov)>  
**Subject:** FW: Animal Carcass Disposal

Hi Ross and Andy,

Passing this request from Peter along to you. Do you think you can come up with something today?

Thanks!

Meghan

Meghan Radtke, Ph.D., Biologist  
Special Assistant  
Office of Resource Conservation and Recovery  
Office of Land and Emergency Management  
U.S. Environmental Protection Agency  
Desk phone: 703-347-0229  
Mobile: 703-472-8215

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**From:** Wright, Peter <[wright.peter@epa.gov](mailto:wright.peter@epa.gov)>

**Sent:** Tuesday, April 28, 2020 5:55 PM

**To:** Cheatham, Reggie <[cheatham.reggie@epa.gov](mailto:cheatham.reggie@epa.gov)>; Salyer, Kathleen <[Salyer.Kathleen@epa.gov](mailto:Salyer.Kathleen@epa.gov)>; Sullivan, Greg <[Sullivan.Greg@epa.gov](mailto:Sullivan.Greg@epa.gov)>; Clark, Becki <[Clark.Beki@epa.gov](mailto:Clark.Beki@epa.gov)>

**Cc:** Breen, Barry <[Breen.Barry@epa.gov](mailto:Breen.Barry@epa.gov)>; Cook, Steven <[cook.steven@epa.gov](mailto:cook.steven@epa.gov)>; Hall, Tayoka <[Hall.Tayoka@epa.gov](mailto:Hall.Tayoka@epa.gov)>; Hilosky, Nick <[Hilosky.Nick@epa.gov](mailto:Hilosky.Nick@epa.gov)>

**Subject:** Animal Carcass Disposal

All

I received a call from Carrie Meadows the Agency's Ag Advisor about the developing issue of animal carcass disposal caused by the closure of pork plants. This topic is getting increased attention at the highest levels in the Government and she expects that the Administrator may schedule a call to discuss this week. I would appreciate a quick update on what work we have done to date answering questions, preparing to assist, etc. I would also be interested in a brief understanding of our prior experience and role in other situations that caused the deaths of large number of livestock that posed significant disposal challenges.

Thank you,

Peter

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